

DFN106A

IEEE 802.11abgn/AC BT4.1 SMT(Industrial)









802.11abgn/AC 1x1, Bluetooth4.1 SDIO SMT module, industrial grade

Introduction of Products

The Bointec DFN106A is a dual-band IEEE802.11a/b/g/n/ac WLAN plus Bluetooth 4.1+HS EDR/BLE "Smart Ready" SDIO module based on the Qualcomm Atheros System-on-Chip (SoC). It integrates a QCA9377 SoC with MAC, Baseband, RF, RF front end, and peripheral circuitry (power management unit, a 48 MHz reference clock crystal etc.).

DFN106A operates on a single regulated 3.3V power supply. The DFN106A has a 50 ohm U.FL connector as a connection interface for an external antenna.

DFN106A supports 802.11ac multi-user MIMO (Wave 2) feature which can increase the overall WLAN system performance. DFN106A provides an SDIO 3.0 interface for WLAN and a hi-speed UART interface for BT.

Product Highlight

- Main Chip:QCA9377-3
- Low Power Dual-Band 1x1 Module for Wi-Fi & BT
- 802.11 a/b/g/n/ac Wave 2 MU-MIMO
- Bluetooth 4.1 BR/EDR/LE(Class 2), and backward compatibility with BT 1.x, BT2.x, BT3.x, and BT4.0
- SDIO 3.0 as the Wireless LAN Host Interface and UART as the BT host interface
- Support 20MHz/40MHz at 2.4GHz and supports 20MHz,40MHz, and 80MHz at 5GHz
- Supports UART as the host IF of Bluetooth
- Calibrated Tx Power per module
- +3.3V main power supply and selectable +1.8V/3.3V IO power supply (VDD_GPIO)
- FCC/IC/ETSI/TELEC modular certification
- Connector mount and surface mount versions

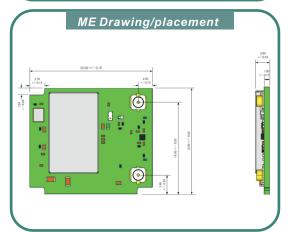


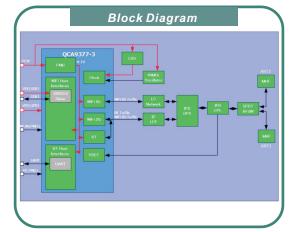


WiFi General Specifications								
Items	Specification	ons	Units	Remarks				
Main Chip	QCA9377-3	3	-					
Frequency Band	2.4GHz/5G	iHz	-					
Connector Type	SMT:60 pir pads	ns direct solder	-					
Antenna Port	MHF Conn	ector x2	pcs	Chip antenna				
Antonna Dort Impedance	50 1/ 200/	50 +/-20%		MHF Connector				
Antenna Port Impedance	e 50 +/-20%			VSWR < 2.6				
	SDIO v3.0		-	For Wireless LAN				
Device Interfaces	UART	UART		For Bluetooth, up to 4Mbps				
		IEEE802.11a/b/g/n/ac		IEEE802.11-2012				
RF Interface	IEEE802.1			IEEE802.11ac- 2013				
	Divistants	Bluetooth 4.1 BR/EDR/LE		Max antenna gain				
	Bluetooth 2			+5dBi@2.4GHz				
Weight		1.4		Тур.				
Dimensions	WxHxD	19.0x22.0x2.6	m					
	Bluetooth	General Specification	ns					
Items	Specifications	cifications			Remarks			
Chipset	QCA9377-3 (Qualco	A9377-3 (Qualcomm Atheros)						
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Bluetooth General Specifications								
Items	Specificati	Specifications			Units	Remarks		
Chipset	QCA9377-	QCA9377-3 (Qualcomm Atheros)			_			
Core Specification	Bluetooth 4	Bluetooth 4.1			_			
Operating Frequency Range	Mode		Min	Max				
	BR/EDR/L	BR/EDR/LE		2480	MHz			
Frequency Step	BR/EDR	BR/EDR		1		Ch.1-Ch.79		
	LE		2		MHz	Ch.0-Ch.39		
Modulation Type	GFSK(1M	GFSK(1Mbps),Π/4 DQPSK(2Mbps),8DQPSK(3Mbps)			_			
Packet Type	Common	NULL,POLL,FHS			_			
		DM1,DM3,DM5,AUX1,						
	ACL	DH1,DH3,DH5,2DH1,2DH3,2DH5			_			
		3DH1,3DH3,3DH5						
	SCO	HV1,HV2,HV3,DV,EV3,2EV3			_			
Encryption	E0	128			bits	BR/EDR		
	AFS	128			bits	I.F.		

Product quick glance OFN106A (C)2617 SONTEC TAVAN MARKACASTAN MEDIA





Ordering Information

PART NUMBER	DESCRIPTION		



